

CLAIMS

1 1. A slush molding machine, for fabricating molded components,
2 having a tool with an inner surface comprising:
3 a powder assembly having a powder reservoir, said powder assembly
4 further including a first lift having a first frame wherein said powder assembly
5 is affixed to said first frame, said first lift further including a first cylinder
6 having a first rod affixed to said powder assembly; and
7 a cooling assembly.

1 2. The machine as recited in claim 1 whereby the cooling assembly
2 further includes a second lift having a second frame wherein said cooling
3 assembly is affixed to said second frame, said second lift further including a
4 second cylinder having a second rod affixed to said cooling assembly.

1 3. The machine as recited in claim 1 further including a tool
2 preheater.

1 4. The machine as recited in claim 1 further including a carriage
2 assembly wherein the tool is rotatably mounted thereon.

1 5. The machine as recited in claim 4 further including a stationary
2 track wherein said carriage assembly is coupled thereto.

1 6. The machine as recited in claim 1 further including a guard
2 assembly extending about the perimeter of said machine, said guard assembly
3 having at least one wall having an opening.

1 7. The machine as recited in claim 1 further including a control
2 panel configured to allow programmed operation of said machine.

1 8. The machine as recited in claim 1 whereby said powder
2 assembly further includes a skirt having an outer surface complementary to the
3 inner surface of the tool.

1 9. The machine as recited in claim 8 whereby said skirt is
2 detachably, selectively coupled to the inner surface of the tool.

1 10. A slush molding machine, for fabricating molded components,
2 having a tool with an inner surface comprising:
3 a powder assembly having a powder reservoir; and
4 a cooling assembly having a coolant reservoir, said cooling assembly
5 further including a second lift having a second frame wherein said cooling
6 assembly is affixed to said second frame, said second lift further including a
7 second cylinder having a second rod affixed to said cooling assembly.

1 11. The machine as recited in claim 10 whereby said powder
2 assembly further includes a first lift having a first frame wherein said powder
3 assembly is affixed to said first frame, said first lift further including a first
4 cylinder having a first rod affixed to said powder assembly.

1 12. The machine as recited in claim 10 further including a tool
2 preheater.

1 13. The machine as recited in claim 10 further including a carriage
2 assembly whereby the tool is rotatably mounted thereon.

1 14. The machine as recited in claim 13 further including a stationery
2 track wherein said carriage assembly is coupled thereto.

1 15. The machine as recited in claim 10 further including a guard
2 assembly extending about the perimeter of the machine, said guard assembly
3 having at least one wall having an opening.

1 16. The machine as recited in claim 10 further including a control
2 panel configured to allow programmed operation of said machine.

1 17. A slush molding machine, for fabricating molded components,
2 having a tool with an inner surface comprising:

3 a powder assembly having a powder reservoir, said powder assembly
4 further having a skirt, said skirt having an outer surface complementary to the
5 inner surface of the tool, said powder assembly further including a first lift
6 having a first frame whereby said powder assembly is affixed to said first
7 frame, said first lift further including a first cylinder having a first rod affixed
8 to said powder assembly;
9 a cooling bath having a coolant reservoir, said cooling bath further
10 having a second lift having a second frame whereby said cooling bath is affixed
11 to said second frame, said second lift further including a second cylinder
12 having a second rod affixed to said cooling bath;
13 a tool preheater; and
14 a carriage assembly wherein the tool is rotatably mounted thereon.

1 18. The machine as recited in claim 17 further including a guard
2 assembly extending about the perimeter of the machine, said guard assembly
3 having at least one opening.

1 19. The machine as recited in claim 17 further including a control
2 panel configured to allow programmed operation of said machine.

1 20. The machine as recited in claim 17 whereby said powder
2 assembly further includes a skirt having an outer surface complementary to the

TTC-13202/08
30708gs/rm

- 3 inner surface of said tool wherein said skirt is detachably, selectively coupled
- 4 to the inner surface of the tool.